IN THE CLAIMS

This listing of claims replaces all prior versions and listings of the claims in the abovereferenced application.

1. (Currently Amended) A light-emitting device comprising:

a heterostructure of III-nitride materials comprising an active region having a peak emission wavelength, an n-layer, and a p-layer;

a p- and an n-electrode, the p-electrode being attached to the p-layer, the n-electrode being attached to the n-layer, wherein the p-electrode and n-electrode are attached to a same side of the light emitting device; and

a superstrate, having a refractive index greater than 1.8 a refractive index of sapphire, attached to the heterostructure.

- 2. (Original) A light-emitting device, as defined in claim 1, wherein the superstrate has an absorption coefficient less than 3 cm⁻¹ at the peak emission wavelength.
- 3. (Original) A light-emitting device, as defined in claim 1, wherein the pelectrode has an absorption less than 25%.
- 4. (Original) A light-emitting device, as defined in claim 1, wherein at least one of the layers comprising the heterostructure is textured.
- 5. (Original) A light-emitting device, as defined in claim 1, wherein the superstrate is selected from a group that includes SiC, ZnO, YAG, ZnSe, ZnS, zirconia, diamond, and CdS.
- 6. (Original) A light-emitting device, as defined in claim 5, wherein the superstrate is SiC and has a resistivity greater than 0.5 Ω cm.
- 7. (Original) A light-emitting device, as defined in claim 1, wherein at least one surface of the superstrate is roughened.

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- 8. (Original) A light-emitting device, as defined in claim 1, wherein a top surface area of the superstrate is larger than a bottom surface area of the superstrate.
- 9. (Original) A light-emitting device, as defined in claim 1, wherein a portion of the p-electrode interposes portions of the n-electrode.
- 10. (Original) A light-emitting device, as defined in claim 1, wherein the pelectrode comprises Au/NiO_x/Al.
- 11. (Original) A light-emitting device, as defined in claim 1, wherein light is extracted from the active region through the superstrate.
 - 12. (Original) A light-emitting device, as defined in claim 1, further comprising:a submount;an n-interconnect connecting the n-electrode to the submount; anda p-interconnect connecting the p-electrode to the submount.
- 13. (Original) A light-emitting device, as defined in claim 12, wherein the ninterconnect and p-interconnect are selected from the group consisting of solder, elemental
 metals, metal alloys, semiconductor-metal alloys, thermally and electrically conductive
 pastes, thermally and electrically conductive compounds, epoxies, eutectic joints, Au studbumps, and solder bumps.
 - 14. (Original) A light-emitting device, as defined in claim 12, further comprising:

 a p-conductive interface disposed between the p-interconnect and the pelectrode; and

an n-conductive interface disposed between the n-interconnect and the n-electrode.

15. (Original) A light-emitting device, as defined in claim 14, wherein the p-conductive interface and the n-conductive interface comprise wettable metals.

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- 16. (Currently Amended) A light-emitting device, as defined in claim 14, wherein the lateral eorss cross sectional area of the n-conductive interface and the p-conductive interface is at least 15% of an area of the p-electrode.
- 17. (Original) A light-emitting device, as defined in claim 14, further comprising a barrier layer disposed between the p-electrode and the p-conductive interface.
- 18. (Original) A light-emitting device, as defined in claim 17, wherein the barrier layer is selected from the group consisting of Ni, Cr, Cu, and Ti.
- 19. (Original) A light-emitting device, as defined in claim 12, wherein the submount comprises a material selected from the group consisting of Si, AlN, and BeO.
- 20. (Original) A light-emitting device, as defined in claim 12, wherein the submount has a thickness less than 250 μ m.
- 21. (New) A light-emitting device, as defined in claim 1, wherein the superstrate is SiC.
- 22. (New) A light-emitting device, as defined in claim 1, wherein the superstrate has an index of refraction greater than an index of refraction of at least one of the n-layer and the p-layer.

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